

## THE CLAIMS

What is claimed is:

5           1.    A paper-plastic film laminate pressure sensitive sealing tape product for adhering to various items in applications involving taping and sealing and having sufficient body to permit dispensing from a conventional pull and tear tape dispenser, the tape product comprising:

10               a paper layer;

              a water-impermeable plastic film layer having a first corona-discharge treated surface, wherein the first corona-discharge treated surface is adhesively laminated to the paper layer to form a paper-plastic film laminate having first and second opposed outer surfaces; and

15               a layer of a pressure-sensitive adhesive coating on one of said first and said second outer surfaces, said pressure-sensitive adhesive coating exposed for use in adhering the paper-plastic film laminate to the various items,

20               wherein the plastic film layer has a strength sufficient to allow the film to be stripped in one piece from an item to which the laminate is adhered.

25           2.    The tape product of claim 1 further comprising a layer of a release agent upon a remaining uncoated one of said first and said second opposed outer surfaces.

30           3.    The tape product of claim 2 wherein the release agent is a silicone.

              4.    The tape product of claim 1 wherein the paper layer has a thickness of about 3 to 6 mils and the plastic film layer has a thickness of about 1 to 3 mils.

35           5.    The tape product of claim 1 wherein the plastic film is an oriented film comprising a polymer

selected from the group consisting of polypropylene, polyethylene and polyester, and wherein the paper layer comprises Kraft paper.

5           6.    The tape product of claim 1 wherein the first corona-discharge treated surface is adhesively laminated to the paper layer by a water-based adhesive.

10           7.    The tape product of claim 6 wherein the water-based adhesive includes an acrylic copolymer composition or a polyvinyl acetate copolymer.

15           8.    The tape product of claim 1 wherein the pressure-sensitive adhesive includes a rubber, a vinyl rubber, a polyvinyl ether, a polyvinylbutyral, a polyisobutylene or an acrylic.

20           9.    The tape product of claim 1 wherein the pressure sensitive adhesive is applied to the paper side of the laminate.

          10.   The tape product of claim 1 wherein the pressure sensitive adhesive is applied to the film side of the laminate.

25           11.   The tape product of claim 1 wherein an outer surface of the plastic film layer is metallized.

30           12.   The tape product of claim 1 wherein adhesive used to adhesively laminate the first corona discharge treated surface to the paper layer produces a stronger bond than the pressure sensitive adhesive bond for allowing the paper-plastic film laminate to be stripped off of an item in one piece.

35

13. The tape product of claim 1 wherein the outer surface of the plastic film layer is corona discharge treated to render said surface receptive to inks.

5 14. The tape product of claim 1 wherein the plastic film layer comprises first and second opposed surfaces, wherein both said first and said second plastic film layer surfaces are corona discharge treated, wherein one said corona discharge surface is adhesively laminated to said  
10 paper layer and wherein the remaining, unlaminated surface of said plastic film layer is provided with a layer of a release agent.

15 15. The tape product of claim 1 wherein said water impermeable plastic film layer further comprises a second surface, opposed to said first, corona-discharge treated surface, and wherein said second surface is not corona discharge treated to prevent adhesion to an adjacent  
20 overlapping layer of the tape product when said tape product is wound on a pull and tear tape dispenser.

25

30

35